

RAW SEQUENCE LISTING

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Application Serial Number: 10/529,428
Source: PCT
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/529,428

DATE: 06/06/2006
TIME: 11:16:47

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\06062006\J529428.raw

3 <110> APPLICANT: NOVARTIS AG
 4 NOVARTIS PHARMA GMBH
 6 <120> TITLE OF INVENTION: OCULAR GENE THERAPY
 8 <130> FILE REFERENCE: 116566-053
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/529,428
 C--> 11 <141> CURRENT FILING DATE: 2005-03-25
 13 <150> PRIOR APPLICATION NUMBER: PCT/EP03/09497
 14 <151> PRIOR FILING DATE: 2003-08-27
 16 <150> PRIOR APPLICATION NUMBER: 60/406,470
 17 <151> PRIOR FILING DATE: 2002-08-28
 19 <160> NUMBER OF SEQ ID NOS: 25
 21 <170> SOFTWARE: PatentIn Ver. 3.3
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 183
 25 <212> TYPE: PRT
 26 <213> ORGANISM: Homo sapiens
 28 <400> SEQUENCE: 1
 29 His Ser His Arg Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn
 30 1 5 10 15
 32 Ser Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln
 33 20 25 30
 35 Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ala Gly Thr Phe Arg Ala
 36 35 40 45
 38 Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala
 39 50 55 60
 41 Asp Arg Ala Ala Val Pro Ile Val Asn Leu Lys Asp Glu Leu Leu Phe
 42 65 70 75 80
 44 Pro Ser Trp Glu Ala Leu Phe Ser Gly Ser Glu Gly Pro Leu Lys Pro
 45 85 90 95
 47 Gly Ala Arg Ile Phe Ser Phe Asp Gly Lys Asp Val Leu Arg His Pro
 48 100 105 110
 50 Thr Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Asn Gly Arg
 51 115 120 125
 53 Arg Leu Thr Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Ala Pro Ser
 54 130 135 140
 56 Ala Thr Gly Gln Ala Ser Ser Leu Leu Gly Gly Arg Leu Leu Gly Gln
 57 145 150 155 160
 59 Ser Ala Ala Ser Cys His His Ala Tyr Ile Val Leu Cys Ile Glu Asn
 60 165 170 175
 62 Ser Phe Met Thr Ala Ser Lys
 63 180
 66 <210> SEQ ID NO: 2
 67 <211> LENGTH: 551

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68 <212> TYPE: DNA
69 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 2
72 acagccaccg cgacttccag ccggtgctcc acctggttgc gctcaacagc cccctgtcag 60
73 gcggcatgcg gggcatccgc gggcccgact tccagtgcct ccagcaggcg cggccgtgg 120
74 ggctggcggg cacttccgc gccttcctgt cctcgcgcct gcaggacctg tacagcatcg 180
75 tgcgcgtgc cgaccgcgca gccgtgccc tcgtcaacct caaggacgag ctgctgtttc 240
76 ccagctggga ggctctgttc tcaggctctg agggtccgct gaagcccgaa gcacgcata 300
77 tctcccttga cggcaaggac gtccgtaggc accccacctg gccccagaag agcgtgtggc 360
78 atggctcgga ccccaacggg cgaggctga ccgagagcta ctgtgagacg tggccggacgg 420
79 aggtccctc ggccacggc caggcctcct cgctgtggg gggcaggctc ctggggcaga 480
80 gtgccgcgag ctgccatcac gcctacatcg tgctctgcat tgagaacagc ttcatgactg 540
81 cctccaagta g 551
84 <210> SEQ ID NO: 3
85 <211> LENGTH: 207
86 <212> TYPE: PRT
87 <213> ORGANISM: Mus musculus
89 <400> SEQUENCE: 3
90 Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
91 1 5 10 15
93 Gly Ser Thr Gly Asp Ala Ala His Thr His Gln Asp Phe Gln Pro Val
94 20 25 30
96 Leu His Leu Val Ala Leu Asn Thr Pro Leu Ser Gly Gly Met Arg Gly
97 35 40 45
99 Ile Arg Gly Ala Asp Phe Gln Cys Phe Gln Gln Ala Arg Ala Val Gly
100 50 55 60
102 Leu Ser Gly Thr Phe Arg Ala Phe Leu Ser Ser Arg Leu Gln Asp Leu
103 65 70 75 80
105 Tyr Ser Ile Val Arg Arg Ala Asp Arg Gly Ser Val Pro Ile Val Asn
106 85 90 95
108 Leu Lys Asp Glu Val Leu Ser Pro Ser Trp Asp Ser Leu Phe Ser Gly
109 100 105 110
111 Ser Gln Gly Gln Leu Gln Pro Gly Ala Arg Ile Phe Ser Phe Asp Gly
112 115 120 125
114 Arg Asp Val Leu Arg His Pro Ala Trp Pro Gln Lys Ser Val Trp His
115 130 135 140
117 Gly Ser Asp Pro Ser Gly Arg Arg Leu Met Glu Ser Tyr Cys Glu Thr
118 145 150 155 160
120 Trp Arg Thr Glu Thr Thr Gly Ala Thr Gly Gln Ala Ser Ser Leu Leu
121 165 170 175
123 Ser Gly Arg Leu Leu Glu Gln Lys Ala Ala Ser Cys His Asn Ser Tyr
124 180 185 190
126 Ile Val Leu Cys Ile Glu Asn Ser Phe Met Thr Ser Phe Ser Lys
127 195 200 205
130 <210> SEQ ID NO: 4
131 <211> LENGTH: 624
132 <212> TYPE: DNA
133 <213> ORGANISM: Mus musculus
135 <400> SEQUENCE: 4

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136 atggagacag acacactcct gctatggta ctgctgctct gggttccagg ttccactgg 60
137 gacgcggccc atactcatca ggactttcag ccagtgtcc acctggtggc actgaacacc 120
138 cccctgtctg gaggcatgcg tggtatccgt ggagcagatt tccagtgtt ccagcaagcc 180
139 cgagccgtgg ggctgtcggg cacctccgg gcttccgtt cctcttaggt gcaggatctc 240
140 tatagcatcg tgcgcgtgc tgaccgggg tctgtgcca tcgtcaacct gaaggacgag 300
141 gtgctatctc ccagctggga ctccctgtt tctgctccc agggtaagt gcaacccggg 360
142 gccgcgcatct tttctttga cggcagagat gtcctgagac acccagcctg gccgcagaag 420
143 agcgtatggc acggctcggc ccccaagtggg cggaggctga tggagagatca ctgtgagaca 480
144 tggcgaactg aaactactgg ggctacaggt caggcctctt ccctgtgtc aggaggctc 540
145 ctgaaacaga aagctgcgag ctgccacaaac agctacatcg tcctgtgtcat tgagaatagc 600
146 ttcatgacct ctttctccaa atag 624
149 <210> SEQ ID NO: 5
150 <211> LENGTH: 8
151 <212> TYPE: PRT
152 <213> ORGANISM: Homo sapiens
154 <400> SEQUENCE: 5
155 Ala Pro Gln Gln Glu Ala Leu Ala
156 1 5
159 <210> SEQ ID NO: 6
160 <211> LENGTH: 38
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
166 primer
168 <400> SEQUENCE: 6
169 actggtgacg cggccatac tcatacaggac tttcagcc 38
172 <210> SEQ ID NO: 7
173 <211> LENGTH: 32
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
179 primer
181 <400> SEQUENCE: 7
182 aagggtatc gatctagctg gcagaggcct at 32
185 <210> SEQ ID NO: 8
186 <211> LENGTH: 20
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
192 primer
194 <400> SEQUENCE: 8
195 cactgcttac tggcttatcg 20
198 <210> SEQ ID NO: 9
199 <211> LENGTH: 29
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence

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203 <220> FEATURE:
 204 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 205 primer
 207 <400> SEQUENCE: 9
 208 ctgatgagta tggccgcgt caccagtgg 29
 211 <210> SEQ ID NO: 10
 212 <211> LENGTH: 32
 213 <212> TYPE: DNA
 214 <213> ORGANISM: Artificial Sequence
 216 <220> FEATURE:
 217 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 218 primer
 220 <400> SEQUENCE: 10
 221 aagggtatc gatcttagctg gcagaggct at 32
 224 <210> SEQ ID NO: 11
 225 <211> LENGTH: 35
 226 <212> TYPE: DNA
 227 <213> ORGANISM: Artificial Sequence
 229 <220> FEATURE:
 230 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 231 primer
 233 <400> SEQUENCE: 11
 234 gatctctaga ccaccatgca tactcatcag gactt 35
 237 <210> SEQ ID NO: 12
 238 <211> LENGTH: 30
 239 <212> TYPE: DNA
 240 <213> ORGANISM: Artificial Sequence
 242 <220> FEATURE:
 243 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 244 primer
 246 <400> SEQUENCE: 12
 247 actggagaaa gaggttattc tagctactag 30
 250 <210> SEQ ID NO: 13
 251 <211> LENGTH: 18
 252 <212> TYPE: PRT
 253 <213> ORGANISM: Adenovirus
 255 <400> SEQUENCE: 13
 256 Met Arg Tyr Met Ile Leu Gly Leu Leu Ala Leu Ala Ala Val Cys Ser
 257 1 5 10 15
 259 Ala Ala
 263 <210> SEQ ID NO: 14
 264 <211> LENGTH: 96
 265 <212> TYPE: DNA
 266 <213> ORGANISM: Artificial Sequence
 268 <220> FEATURE:
 269 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 270 primer
 272 <400> SEQUENCE: 14
 273 gatctctaga ccaccatgag gtacatgatt ttaggcttgc tcgcccttgc ggcagtctgc 60

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Input Set : A:\Sequence Listing.txt
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274	agcgcgcccc atactcatac tcatacaggac tttcag	96
277	<210> SEQ ID NO: 15	
278	<211> LENGTH: 29	
279	<212> TYPE: DNA	
280	<213> ORGANISM: Artificial Sequence	
282	<220> FEATURE:	
283	<223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic	
284	primer	
286	<400> SEQUENCE: 15	
287	atcgatcata ctcatacaggac ctttcagcc	29
290	<210> SEQ ID NO: 16	
291	<211> LENGTH: 29	
292	<212> TYPE: DNA	
293	<213> ORGANISM: Artificial Sequence	
295	<220> FEATURE:	
296	<223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic	
297	primer	
299	<400> SEQUENCE: 16	
300	gccccccgcct atttggagaa agaggtcat	29
303	<210> SEQ ID NO: 17	
304	<211> LENGTH: 23	
305	<212> TYPE: DNA	
306	<213> ORGANISM: Artificial Sequence	
308	<220> FEATURE:	
309	<223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic	
310	primer	
312	<400> SEQUENCE: 17	
313	tttttttttc agtgtaaaag gtc	23
316	<210> SEQ ID NO: 18	
317	<211> LENGTH: 19	
318	<212> TYPE: DNA	
319	<213> ORGANISM: Artificial Sequence	
321	<220> FEATURE:	
322	<223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic	
323	primer	
325	<400> SEQUENCE: 18	
326	cagatgacat cctggccag	19
329	<210> SEQ ID NO: 19	
330	<211> LENGTH: 22	
331	<212> TYPE: DNA	
332	<213> ORGANISM: Artificial Sequence	
334	<220> FEATURE:	
335	<223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic	
336	primer	
338	<400> SEQUENCE: 19	
339	ctatacaggaa aagtatggca gc	22
342	<210> SEQ ID NO: 20	
343	<211> LENGTH: 118	
344	<212> TYPE: DNA	

VERIFICATION SUMMARY

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Input Set : A:\Sequence Listing.txt

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L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date